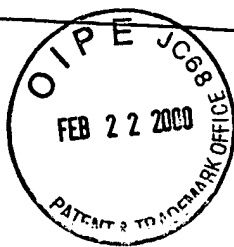


SEQUENCE LISTING



<110> Nguyen, Thai D.
Polansky, Jon R.
Chen, Pu
Chen, Hua

<120> Nucleic Acids, Kits, And Methods For The Diagnosis, Prognosis And
Treatment Of Glaucoma And Related Disorders

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<140> US 09/227,881

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<210> 27
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 <212> PRT
 <213> Homo sapiens

<400> 27

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| Ser | Arg | Thr | Val | Ile | Arg | Tyr | Glu | Leu | Asn | Thr | Glu | Thr | Val | Lys | Ala |
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| Glu | Lys | Glu | Ile | Pro | Gly | Ala | Gly | Tyr | His | Gly | Gln | Phe | Pro | Tyr | Ser |
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| Trp | Gly | Gly | Tyr | Thr | Asp | Ile | Asp | Leu | Ala | Val | Asp | Glu | Ala | Gly | Leu |
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| Trp | Val | Ile | Tyr | Ser | Thr | Asp | Glu | Ala | Lys | Gly | Ala | Ile | Val | Leu | Ser |
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| Lys | Leu | Asn | Pro | Glu | Asn | Leu | Glu | Leu | Glu | Gln | Thr | Trp | Glu | Thr | Asn |
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| Ile | Arg | Lys | Gln | Ser | Val | Ala | Asn | Ala | Phe | Ile | Ile | Cys | Gly | Thr | Leu |
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| Tyr | Thr | Val | Ser | Ser | Tyr | Thr | Ser | Ala | Asp | Ala | Thr | Val | Asn | Phe | Ala |
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| Tyr | Asp | Thr | Gly | Thr | Gly | Ile | Ser | Lys | Thr | Leu | Thr | Ile | Pro | Phe | Lys |
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| Asn | Arg | Tyr | Lys | Tyr | Ser | Ser | Met | Ile | Asp | Tyr | Asn | Pro | Leu | Glu | Lys |
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| Lys | Leu | Phe | Ala | Trp | Asp | Asn | Leu | Asn | Met | Val | Thr | Tyr | Asp | Ile | Lys |
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<210> 28
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 28

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| Tyr | Ala | Gly | Tyr | Asn | Asn | Met | Tyr | His | Tyr | Ala | Trp | Gly | Gly | His | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Asp | Ile | Asp | Leu | Met | Val | Asp | Glu | Ser | Gly | Leu | Trp | Ala | Val | Tyr | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

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 Pro Gly Xaa Ala Phe Ile Ile Cys Gly Thr Cys Tyr Val Thr Asn Gly
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 Tyr Ser Gly Gly Thr Lys Val His Tyr Ala Tyr Gln Thr Asn Ala Ser
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 Thr Tyr Glu Tyr Ile Asp Ile Pro Phe Gln Asn Lys Leu Xaa Pro His
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 Phe Pro Cys
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 Ala Trp Gly Gly His Ser Asp Ile Asp Leu Met Val Asp Glu Asn Gly
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 65 70 75 80
 Ser Lys Leu Asp Pro Val Ser Leu Gln Ile Leu Gln Thr Trp Asn Thr
 85 90 95
 Ser Tyr Pro Lys Arg Ser Ala Gly Glu Ala Phe Ile Ile Cys Gly Thr
 100 105 110
 Leu Tyr Val Thr Asn Gly Tyr Ser Gly Gly Thr Lys Val His Tyr Ala
 115 120 125
 Tyr Gln Thr Asn Ala Ser Thr Tyr Glu Tyr Ile Asp Ile Pro Phe Gln
 130 135 140
 Asn Lys Tyr Ser His Ile Ser Met Leu Asp Tyr Asn Pro Lys Asp Arg
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 Leu Phe

<210> 30
 <211> 177
 <212> PRT
 <213> Rana catesbeiana

<400> 30
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| Lys | Lys | Pro | Leu | Leu | Asn | Ala | Leu | Phe | Asn | Asn | Arg | Phe | Ser | Tyr | Ala | | |
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| Gly | Thr | Met | Phe | Gln | Asp | Met | Asp | Phe | Ser | Ser | Asp | Glu | Lys | Gly | Leu | | |
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| Trp | Val | Ile | Phe | Thr | Thr | Glu | Lys | Ser | Ala | Gly | Lys | Ile | Val | Val | Gly | | |
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| Lys | Val | Asn | Val | Ala | Thr | Phe | Thr | Val | Asp | Asn | Ile | Trp | Ile | Thr | Thr | | |
| | | | | 85 | | | | | 90 | | | | | 95 | | | |
| Gln | Asn | Lys | Ser | Asp | Ala | Ser | Asn | Ala | Phe | Met | Ile | Cys | Gly | Val | Leu | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| Tyr | Val | Thr | Arg | Ser | Leu | Gly | Pro | Lys | Met | Glu | Glu | Val | Phe | Tyr | Met | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | |
| Phe | Asp | Thr | Lys | Thr | Gly | Lys | Glu | Gly | His | Leu | Ser | Ile | Met | Met | Glu | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Lys | Met | Ala | Glu | Lys | Val | His | Ser | Leu | Ser | Tyr | Asn | Ser | Asn | Asp | Arg | | |
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| Lys | Leu | Tyr | Met | Phe | Ser | Glu | Gly | Tyr | Leu | Leu | His | Tyr | Asp | Ile | Ala | | |
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 <212> PRT
 <213> Homo sapiens

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| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Gln | Arg | Leu | Asp | Leu | Glu | Ala | Thr | Lys | Ala | Arg | Leu | Ser | Ser | Leu | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Ser | Leu | Leu | His | Gln | Leu | Thr | Leu | Asp | Gln | Ala | Ala | Arg | Pro | Gln | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Thr | Gln | Glu | Gly | Leu | Gln | Arg | Glu | Leu | Gly | Thr | Leu | Arg | Arg | Glu | Arg |
| | 115 | | | | | | 120 | | | | | 125 | | | |
| Asp | Gln | Leu | Glu | Thr | Gln | Thr | Arg | Glu | Leu | Glu | Thr | Ala | Tyr | Ser | Asn |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Leu | Leu | Arg | Asp | Lys | Ser | Val | Leu | Glu | Glu | Glu | Lys | Lys | Arg | Leu | Arg |
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| Gln | Glu | Asn | Glu | Asn | Leu | Ala | Arg | Arg | Leu | Glu | Ser | Ser | Ser | Gln | Glu |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Val | Ala | Arg | Leu | Arg | Arg | Gly | Gln | Cys | Pro | Gln | Thr | Arg | Asp | Thr | Ala |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Arg | Ala | Val | Pro | Pro | Gly | Ser | Arg | Glu | Val | Ser | Thr | Trp | Asn | Leu | Asp |
| | 195 | | | | | 200 | | | | | | 205 | | | |
| Thr | Leu | Ala | Phe | Gln | Glu | Leu | Lys | Ser | Glu | Leu | Thr | Glu | Val | Pro | Ala |
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| Gly | Asp | Thr | Gly | Cys | Gly | Glu | Leu | Val | Trp | Val | Gly | Glu | Pro | Leu | Thr |
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| Leu | Arg | Thr | Ala | Glu | Thr | Ile | Thr | Gly | Lys | Tyr | Gly | Val | Trp | Met | Arg |
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| Asp | Pro | Lys | Pro | Thr | Tyr | Pro | Tyr | Thr | Gln | Glu | Thr | Thr | Trp | Arg | Ile |
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| Asp | Thr | Val | Gly | Thr | Asp | Val | Arg | Gln | Val | Phe | Glu | Tyr | Asp | Leu | Ile |
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| Ser | Gln | Phe | Met | Gln | Gly | Tyr | Pro | Ser | Lys | Val | His | Ile | Leu | Pro | Arg |
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| Pro | Leu | Glu | Ser | Thr | Gly | Ala | Val | Val | Tyr | Ser | Gly | Ser | Leu | Tyr | Phe |
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| Gln | Gly | Ala | Glu | Ser | Arg | Thr | Val | Ile | Arg | Tyr | Glu | Leu | Asn | Thr | Glu |
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| Thr | Val | Lys | Ala | Glu | Lys | Glu | Ile | Pro | Gly | Ala | Gly | Tyr | His | Gly | Gln |
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| Phe | Pro | Tyr | Ser | Trp | Gly | Gly | Tyr | Thr | Asp | Ile | Asp | Leu | Ala | Val | Asp |
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| Glu | Ala | Gly | Leu | Trp | Val | Ile | Tyr | Ser | Thr | Asp | Glu | Ala | Lys | Gly | Ala |
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| Trp | Glu | Thr | Asn | Ile | Arg | Lys | Gln | Ser | Val | Ala | Asn | Ala | Phe | Ile | Ile |
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| Cys | Gly | Thr | Leu | Tyr | Thr | Val | Ser | Ser | Tyr | Thr | Ser | Ala | Asp | Ala | Thr |
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Cont

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a!
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| | | | | | | |
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a!
Cont.

| | | | | | | |
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